

IN THE CLAIMS

Claims 1-34 are presented below, with claims 1-2, 4-13, 15-23, and 25-34 pending. As shown below, claims 1, 12, and 22 have been amended, and new claims 33 and 34 have been added.

1. (Currently Amended) A method of authenticating ~~information~~ a recording medium and a disk playback apparatus, comprising the steps of

performing an absolute authentication process for authenticating a recording medium with information for authentication being recorded in a predetermined position therein, according to a first rule at a predetermined time, wherein said first rule is that normal authentication is declared in said absolute authentication process if the information for authentication is detected as being recorded in said predetermined position;

executing a program transferred from said recording medium if normal authentication is declared in said absolute authenticating process; and

performing an arbitrary authentication process for authenticating ~~said recording medium~~ a disk playback apparatus according to a second rule at an arbitrary time while executing said program, wherein said second rule is that normal authentication is declared in said arbitrary authentication process if the information for authentication is not detected ~~as being not recorded~~ in arbitrary positions other than said predetermined position.

2. (Original) A method according to claim 1, wherein said absolute authentication process is performed when said recording medium starts being accessed for the first time, and said arbitrary authentication process is performed at least once after said absolute authentication process.

3. (Canceled)

4. (Previously Presented) A method according to claim 1, wherein said absolute authentication process comprises an authentication information detecting process for detecting the information recorded in said predetermined position when said recording medium starts being accessed, and an absolute decision process for declaring normal authentication if the detected information comprises information for authentication, and said arbitrary authentication process comprises an arbitrary information detecting process for detecting information from an arbitrary position except said predetermined position on said recording medium, and an arbitrary decision process for declaring normal authentication if the detected information does not comprise information for authentication.

5. (Previously Presented) A method according to claim 1, wherein said first rule in said absolute authentication process includes that normal authentication is declared if a signal indicating that the information for authentication is recorded in said predetermined position is received, and said second rule in said arbitrary authentication process includes that normal authentication is declared if a signal indicating that the information for authentication is not recorded is received.

6. (Original) A method according to claim 5, further comprising the step of employing access means for accessing said recording medium and outputting a normal signal if the information for authentication is recorded in said predetermined position, said absolute authentication process comprising an absolute decision process for declaring normal authentication if said normal signal is received, and said arbitrary authentication process comprising an arbitrary decision process for declaring an abnormal authentication if said normal signal is received.

7. (Original) A method according to claim 1, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein.

8. (Original) A method according to claim 4, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein, and wherein said absolute authentication process and said arbitrary authentication process comprise the steps of:

- detecting a modulated component from said recording medium;
- detecting the information for authentication from said modulated component; and
- deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

9. (Original) A method according to claim 6, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein, and wherein said access means comprises means for performing the steps of:

- detecting a modulated component from said recording medium;
- detecting the information for authentication from said modulated component; and
- deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

10. (Original) A method according to claim 1, further comprising the step of forcibly ending a processing being executed if either said absolute authentication process or said arbitrary authentication process does not result in normal authentication.

11. (Original) A method according to claim 1, further comprising the step of displaying information representing an authenticated result of either said absolute authentication process or said arbitrary authentication process.

12. (Currently Amended) A disk playback apparatus for playing back information on a disk-type recording medium, comprising:

- absolute authentication means for performing an absolute authentication process for authenticating a recording medium with information for authentication being recorded in a

predetermined position therein, according to a first rule at a predetermined time, wherein said first rule is that normal authentication is declared in said absolute authentication process if the information for authentication is detected as being recorded in said predetermined position;

executing means for executing a program transferred from said recording medium if normal authentication is declared in said absolute authenticating process; and

arbitrary authentication means for performing an arbitrary authentication process for authenticating said disk playback apparatus ~~recording medium~~ according to a second rule at an arbitrary time while said program is executing, wherein said second rule is that normal authentication is declared in said arbitrary authentication process if the information for authentication is not detected as ~~being not recorded~~ in arbitrary positions other than said predetermined position.

13. (Original) A disk playback apparatus according to claim 12, wherein said absolute authentication means comprises means for performing said absolute authentication process according to said first rule when said recording medium starts being accessed for the first time, and said arbitrary authentication means comprises means for performing said arbitrary authentication process according to said second rule at least once after said absolute authentication process.

14. (Canceled)

15. (Previously Presented) A disk playback apparatus according to claim 12, wherein said absolute authentication means comprises authentication information detecting means for

detecting the information recorded in said predetermined position when said recording medium starts being accessed, and absolute decision means for declaring normal authentication if the detected information comprises information for authentication, and said arbitrary authentication means comprises arbitrary information detecting means for detecting information from an arbitrary position except said predetermined position on said recording medium, and arbitrary decision means for declaring normal authentication if the detected information does not comprise information for authentication.

16. (Previously Presented) A disk playback apparatus according to claim 12, wherein said first rule in said absolute authentication process performed by said absolute authentication means includes that normal authentication is declared if a signal indicating that the information for authentication is recorded in said predetermined position is received, and said second rule in said arbitrary authentication process performed by said arbitrary authentication means includes that normal authentication is declared if a signal indicating that the information for authentication is not recorded is received.

17. (Original) A disk playback apparatus according to claim 16, further comprising:

access means for accessing said recording medium and
outputting a normal signal if the information for authentication is recorded in said predetermined position;
said absolute authentication means comprising absolute decision means for declaring normal authentication if said normal signal is received; and

said arbitrary authentication means comprising arbitrary decision means for declaring an abnormal authentication if said normal signal is received.

18. (Original) A disk playback apparatus according to claim 12, wherein the information for authentication is modulated radially of said recording medium and recorded therein.

19. (Previously Presented) A disk playback apparatus according to claim 12, wherein the information for authentication is modulated radially of said recording medium and recorded therein, and wherein said absolute authentication means and said arbitrary authentication means comprise:

modulated component detecting means for detecting a modulated component from said recording medium;

detecting means for detecting the information for authentication from said modulated component; and

authentication decision means for deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

20. (Original) A disk playback apparatus according to claim 17, wherein the information for authentication is modulated radially of said recording medium and recorded therein, and wherein said access means comprises:

modulated component detecting means for detecting a modulated component from said recording medium;

detecting means for detecting the information for authentication from said modulated component; and

authentication decision means for deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

21. (Original) A disk playback apparatus according to claim 12, further comprising means for forcibly ending a processing being executed if either said absolute authentication process performed by said absolute authentication means or said arbitrary authentication process performed by said arbitrary authentication means does not result in normal authentication.

22. (Currently Amended) An entertainment apparatus for performing processing operations using programs and data reproduced from a recording medium, comprising:

absolute authentication means for performing an absolute authentication process for authenticating a recording medium with information for authentication being recorded in a predetermined position therein, according to a first rule at a predetermined time, wherein said

first rule is that normal authentication is declared in said absolute authentication process if the information for authentication is detected as being recorded in said predetermined position;

executing means for executing a program transferred from said recording medium if normal authentication is declared in said absolute authenticating process; and

arbitrary authentication means for performing an arbitrary authentication process for authenticating said entertainment apparatus ~~recording medium~~ according to a second rule at an arbitrary time while said program is executing, wherein said second rule is that normal authentication is declared in said arbitrary authentication process if the information for authentication is not detected as ~~being not recorded~~ in arbitrary positions other than said predetermined position.

23. (Original) An entertainment apparatus according to claim 22, wherein said absolute authentication means comprises means for performing said absolute authentication process according to said first rule when said recording medium starts being accessed for the first time, and said arbitrary authentication means comprises means for performing said arbitrary authentication process according to said second rule at least once after said absolute authentication process.

24. (Canceled)

25. (Previously Presented) An entertainment apparatus according to claim 22, wherein said absolute authentication means comprises authentication information detecting means for detecting the information recorded in said predetermined position when said recording medium

starts being accessed, and absolute decision means for declaring normal authentication if the detected information comprises information for authentication, and said arbitrary authentication means comprises arbitrary information detecting means for detecting information from an arbitrary position except said predetermined position on said recording medium, and arbitrary decision means for declaring normal authentication if the detected information does not comprise information for authentication.

26. (Previously Presented) An entertainment apparatus according to claim 22, wherein said first rule in said absolute authentication process performed by said absolute authentication means includes that normal authentication is declared if a signal indicating that the information for authentication is recorded in said predetermined position is received, and said second rule in said arbitrary authentication process performed by said arbitrary authentication means includes that normal authentication is declared if a signal indicating that the information for authentication is not recorded is received.

27. (Original) An entertainment apparatus according to claim 26, further comprising:

access means for accessing said recording medium and
outputting a normal signal if the information for authentication is recorded in said predetermined position;
said absolute authentication means comprising absolute decision means for declaring normal authentication if said normal signal is received; and
said arbitrary authentication means comprising arbitrary decision means for declaring an abnormal authentication if said normal signal is received.

28. (Original) An entertainment apparatus according to claim 22, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein.

29. (Previously Presented) An entertainment apparatus according to claim 22, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein, and wherein said absolute authentication means and said arbitrary authentication means comprise:

modulated component detecting means for detecting a modulated component from said recording medium;

detecting means for detecting the information for authentication from said modulated component; and

authentication decision means for deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

30. (Original) An entertainment apparatus according to claim 27, wherein said recording medium comprises a disk-type recording medium, the information for authentication being modulated radially of said recording medium and recorded therein, and wherein said access means comprises:

modulated component detecting means for detecting a modulated component from said recording medium;

detecting means for detecting the information for authentication from said modulated component; and

authentication decision means for deciding whether the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position, and outputting a normal signal if the detected information for authentication is in agreement with predetermined information and recorded in said predetermined position.

31. (Original) An entertainment apparatus according to claim 22, further comprising means for forcibly ending a processing being executed if either said absolute authentication process performed by said absolute authentication means or said arbitrary authentication process performed by said arbitrary authentication means does not result in normal authentication.

32. (Original) An entertainment apparatus according to claim 22, further comprising display means for displaying information representing an authenticated result from either said absolute authentication means or said arbitrary authentication means.

33. (New) A method of authenticating a disk playback apparatus, comprising the steps of:

reading a recording medium including first information as a first security code in a predetermined position thereof to detect information in arbitrary positions other than said predetermined position;

deciding whether said detected information is in agreement with a second security code stored in said disk playback apparatus; and

declaring normal authentication if said detected information is not in agreement with said second security code and declaring abnormal authentication if said detected information is in agreement with said second security code.

34. (New) A method of authenticating a recording medium and a disk playback apparatus, comprising the steps of:

authenticating a recording medium inserted into a disk playback apparatus by comparing a code stored in said playback apparatus with a code read from said recording medium, said code read from said recording medium being a code for authentication recorded in a predetermined position therein; and

authenticating said disk playback apparatus according to a predetermined rule, said predetermined rule being that normal authentication is declared if said authenticating said recording medium for an arbitrary position other than said predetermined position fails.